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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/811,995 | 03/30/2004 | Hai Yan | M4065.1033/P1033 | 2651 |
| 24998 | 7590 | 07/07/2006 | EXAMINER | |
| DICKSTEIN SHAPIRO LLP 1825 EYE STREET NW Washington, DC 20006-5403 | | | NGUYEN, MATTHEW VAN | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2838 | |

DATE MAILED: 07/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

| | |
|-------------------------------|--------------------------|
| Application No. 10/811,995 | Applicant(s) YAN, HAI |
| Examiner MATTHEW V. NGUYEN | Art Unit 2838 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 27 April 2006.
- 2a) This action is **FINAL**.
- 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-59 is/are pending in the application.
4a) Of the above claim(s) 16-21, 41-46 and 48-54 is/are withdrawn from consideration.
- 5) Claim(s) 55-59 is/are allowed.
- 6) Claim(s) 1-4, 6, 22-25, 27, 37-40 and 47 is/are rejected.
- 7) Claim(s) 5, 7-15, 26 and 28-36 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 30 March 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3/30/04.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

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1. Applicant's election without traverse of Group I, claims 1-15, 22-40, 47 and 55-59 in the reply filed on 4/27/06 is acknowledged.

2. The disclosure should be carefully reviewed and ensure that any and all grammatical, idiomatic, and spelling or other minor errors are corrected.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 6, 22-25, 27, 37-40 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over prior art admitted by Applicant in view of Matsushita (U.S. Pat. No. 5781,426).

With regard to claims 1-4, 6, 22-25, 27, 37-40 and 47, prior art admitted by Applicant in Fig. 1 shows a voltage boosting circuit comprising a second circuit (10) receiving a pre-charge voltage (12), outputting a boosted output voltage (14) based on the pre-charge voltage, the second circuit having a second node (between 12 and 14) indicative of a difference between the boosted voltage and the pre-charge voltage.

Fig. 1 of prior art does not disclose a first circuit having a first input connected to a reference voltage, and a first output.

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Matsushita (i.e., Fig. 1) also shows a voltage boosting circuit in which a first circuit (23, 21) having a first input connected to a reference voltage (OSC), and a first output (N1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the first circuit as shown in Matsushita into the voltage boosting circuit of Fig.1 prior art for the purpose of enhancing the power efficiency and a better control of the circuit.

4. Claims 5, 7-15, 26, 28-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. Claims 55-59 are allowable over prior art.
6. None of prior art of record taken alone or in combination shows the second circuit comprising a tracking capacitor connected between the output and the second nodes for producing the voltage at the second node; or first and second switches connected between a third node and the second node, respectively, and the ground wherein in a pre-charge phase, the switches are closed to allow the capacitors to be pre-charged to the pre-charge voltage; or the first voltage comprising a voltage-to-current converter circuit and the first output is a current based on a difference between the voltage on the second node and the reference voltage; or a current source outputting a control current

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and a differential/integrator circuit having a first input connected to the reference voltage and a second input connected to the voltage at the second node.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Foss et al. (U.S. Pat. No. 6,614,705) and Yang et al. (U.S. Pat. No. 6,898,126) shows electronic systems each of which comprises a voltage boosting circuit.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew V. Nguyen whose telephone number is (571) 272-2081.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2800.

Matthew V. Nguyen
MATTHEW V. NGUYEN
PRIMARY EXAMINER